



SEAA 1503

Mike Silva <mikesilva@utah.gov>

New Meters. - Questions

Mike Silva <mikesilva@utah.gov>

Tue, Aug 30, 2016 at 12:21 PM

To: Dave Van Dyke <dave@redriverranch.com>

Cc: Kim Bradbury <fremontriveroutfitters@gmail.com>, "Forbush, Kirk" <kirkforbush@utah.gov>, "Monroe, Terry" <terrymonroe@utah.gov>

Dave,

Thanks for getting the meters installed, we appreciate your efforts.***Randy and I are working to understand what was installed, and what is still needed for completion.******Below is a follow up to our correspondence in early July- last month.******The installer or supplier may have some of this info readily available, from the invoice or work order.******if not, much of what is required is on the sticker on the side of the meter housing******- this list needs to be associated with the Name of the Farm Field******The comments in Bold Italics require a response.******Once we have this, I think we are close to closing this SEAA 1503 out.******—However, it looks like you may need two more meters, then everything is on a meter, which is where we need to be.******— I am concerned on the meter (#2 below) that is not running when the pump is going...***

From: Mike Silva [mailto:mikesilva@utah.gov]

Sent: Thursday, July 7, 2016 2:53 PM

To: Dave Van Dyke <dave@redriverranch.com>

Subject: New Meters. - Mike Silva's Questions- ***as follow up in Bold italics***

Dave,

Randy and I inspected the new meters last week, and have some questions that need clarification:

1) How did you determine the meter used for each installation?. What was the criteria you used to properly calibrate each meter to measure flow? Also we need to know the pipe size each meter was installed in...?

a. Meter was calibrated at the factory based on the pipe size. 4 inch pipe 6 inch pipe 8 inch pipe and 15 inch pipe.

— See #6 below. need pipe size & meter inventory with farm field listed.

2) Why are meters not registering any flow (at all) when we can clearly see pumps on and sprinklers running- this is around the Lodge. Meter has not totaled any AF flow...

a. Good question we are checking them to see if some hit the prop or if there is some other issue.

— Any Resolution on meters not running when pump is running? Needs follow up, are meters still not registering, if so these need to be fixed.

3) When we count sprinklers, the calculated GPM for total number of heads is way more than what the meters read out says. Example: there are 59 sprinkler heads running on the concert field at 8 gpm each, which totals 472 GPM, and the meter reads 310. If we look at the count you provided in 2015, see page 2 of the attached document, there are 49 heads at 8 GPM = 392 GPM, — Neither calculation matches what the meter is measuring..

a. You wanted the meters. Maybe the heads were off. The meters have been calibrated at the factory and I have the certificates for the calibration. They are reading the flow (At least the ones that are working.

--- Meter' flow rate should reasonably match the sprinkler count & GPM, Randy will do a second verification on this, point out discrepancies that need to be addressed. Please advise us on which sprinklers sets have the heads taken off.

4) Another pump house has two pipes and only one meter, no meter on a line that has sprinklers running. The meter measures East of the Lodge, only & seems the meter does not include the field across the canal to the south. Two pipes but only one meter....

a. I thought they run off of the same pipe. I will have to check on that. If I need another meter then I will have to get another meter.

--- Looks like additional 2 meter(s) are needed on the pipes that are not metered:

--Location #1: The meter at the concert field measures the water to the field north of the ditch but not the field south of the ditch. A second meter needs to be installed to measure the south side or pipe configuration to the south field needs to be connected downstream of the meter that was installed. Probably less work to install a second meter.

-- Location #2 The meter installed by John Alexander's house measures water water that goes under the highway to David Vandykes house. There is no meter to measure water that on the pipe that waters near John Alexander's house - A second meter is needed in this location or the pipes need to configured to be downstream of a single meter. Probably less work to install a second meter.

5) The meter near Dr. A's house measures the field across the highway to the south but misses the field around Dr. A's house. Two pipes but only one meter....

a. Same as above.

--See comment above on Location #2

6) Please provide a listing of the meters you installed, Listed by farm field serviced by each meter, with the corresponding pipe size and status: (operating?, calibrated? - and how calibrated? , - or not)

These are the same meters being used all over the state. Peterson Plumbing has been supplying them to numerous irrigation companies without issues.

-- Avoids the question, provide an inventory-list of meters used and where they were installed, listed by farm field, with the corresponding pipe size.

This is a simple request. The installer should easily be able to provide this list, or obtain from looking at the data plate and face of each meter.

The data listing we are looking for is provided in the Example below:

<u>Farm Field Name</u>	<u>Meter Size</u>	<u>Pipe Size ID</u>	<u>Pipe Size OD</u>	<u>Meter Size/Model #</u>	<u>Serial #</u>	
<u>Scale Range</u>	<u>Increments</u>	<u>Conversion</u>				
_____ Field	16"	14.7	15.3	McCROMETER MO314	16-07585	0-
5000 GPM	200 gpm	AF x .01				

Mike Silva, Distribution Engineer -Div of Water Rights, Utah DNR

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